



QENOS PROFILE

Australia's manufacturer and supplier of polyethylene

Locations:	Altona, Victoria and Botany, New South Wales
Employment:	Approximately 800 employees.
Manufactured Product Range:	The full range of polyethylenes (HDPE, LDPE, LLDPE)
Annual Capacity:	
Olefins/Olefines	Approximately 500,000 tonnes ethylene capacity
Polyethylene	About 200,000 tonnes HDPE, 90,000 tonnes LDPE and 120,000 tonnes of LLDPE

Shareholders:

China National Chemical Corporation (ChemChina) is the sole shareholder of Qenos Pty Ltd. ChemChina is a large government owned enterprise and is one of the leading speciality chemical and petrochemical companies in China with its headquarters in Beijing.

Qenos Plants:

An Overview of the Botany Sites:

The Qenos Botany site covers 37 hectares (91 acres) and is located approximately 17 km south of the Sydney central business district. The area is adjacent to Botany Bay and its shipping terminal. Chemical companies first commenced operations at Botany in 1942 and since that time the area has developed into a major chemical and plastics manufacturing location. The Qenos plants include Olefines, Alkatuff, Alkathene and Site Utilities. Site Utilities provides steam and power to all Qenos Botany plants and also the neighbouring Orica Chlorine and Huntsman Surfactants plants.

Olefines Botany

The Olefines plant was built in 1983 and originally operated on a naphtha and liquid petroleum gas (LPG) feedstock producing both ethylene and propylene. In 1996 the operation was converted and began to process ethane feedstock and the plant now produces approximately 250,000 tonnes of ethylene per year for the two downstream polyethylene plants—Alkatuff and Alkathene and other domestic and export customers.

Alkatuff Botany

The Alkatuff plant is the newest polyethylene plant and was commissioned in 1992. It produces over 120,000 tonnes of polyethylene per annum. The process requires only low pressure for production. The product is a stronger polymer called linear low-density polyethylene. LLDPE is light and has high strength properties. The polyethylene is used in many applications including stretch wrapping, food packaging and rotational moulded products including water tanks. Alkatuff also produces HD injection grades.

Alkathene Botany

The Alkathene plant uses a high-pressure polymerisation process and produces 90,000 tonnes of low-density polyethylene per year. LDPE is moisture proof, flexible, transparent, heat sealable, hygienic and recyclable. LDPE is used for plastic bags, film, moulded plastic products and linings for milk cartons.

An Overview of the Altona Sites:

The Altona Chemical Complex began production in the early 1960s and is the largest production centre for petrochemicals and plastics in Australia today. The Qenos Altona site covers 91 hectares (225 acres) and is located approximately 15 km west of the Melbourne central business district.

Olefins Altona

Olefins produces ethylene for its downstream plastic plants. It also supplies other manufacturers that use these basic raw materials. It has an ethylene capacity of over 180,000 tonnes per year.

Plastics Altona

The Plastics site manufactures High Density Polyethylene (HDPE). Low pressure polymerisation is the industrial process used to transform ethylene into polyethylene.

Many items that are used in the home, such as milk bottles, micro irrigation pipes, moulded plastics and telecom conduit are made from resin produced at Qenos Plastics.

Resins Altona

Production began at the site in 1967 as Hoechst Australia. Qenos Resins produces high density polyethylene (HDPE). The current capacity of this plant is 90,000 tonnes per annum and provides the raw material for plastic products in a wide range of domestic and consumer goods.

Our products:

Summary of Qenos Products/End Uses

Plant	Main Products	Some End Uses
Qenos Olefins	Ethylene	Basic raw materials for production of plastics
Qenos Plastics	High Density Polyethylene	Plastic materials used for automotive parts, bottles, water and gas pipes, wire and cable insulants, miscellaneous moulded articles, plastic components for motor vehicles
Qenos Resins	High Density Polyethylene	Pipes, bottles, packaging, electrical appliances and an extensive range of domestic and consumer goods
Botany Olefines Alkathene Alkatuff	Ethylene Polyethylene	Plastic film, moulded plastic products, water tanks, linings of drink cartons, toys, garden equipment, bread wrapping and electrical cable insulation and industrial packaging

Qenos Imported Product Range

Qenos acts as local agent for a wide range of imported polymers manufactured by ExxonMobil Chemical, Dexcel Polymers, Kumho and BASF. These products include: EPDM; butyl and nitrile rubber; metallocene PE; EVA; EMA; EAA/ionomer; PP; BOPP; polyester resins; bitumen modifiers; tackifying resins; polymer modifiers; styrenic thermoplastic rubbers, thermoplastic elastomers, styrene butadiene rubbers and PIB.